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PCT/USA NATIONAL DECLARATION AND POWER OF ATTORNEY
FOR U.S. PATENT APPLICATIONS
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
UNDER 35 U.S.C. SECTION 371(c)(4)

As a below named inventor, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to my name:

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the invention described and claimed in international application No. PCT/JP98/000364 entitled: PLASMA DEVICE and as amended on _____ (if any), which I have reviewed, and I understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above and for which I solicit a patent; that I do not know and do not believe that this invention was ever known or used in the United States of America before my or our invention or discovery thereof, or patented or described in any printed publication in any country before my or our invention or discovery thereof, or more than one year prior to my international application; that this invention was not in public use or on sale in the United States of America for more than one year prior to my international application; that this invention has not been patented or made the subject of an inventor's certificate issued before the date of my international application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months before my international application; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application; and that prior to filing said international application, applications for patent or inventor's certificate on this invention or discovery which have been filed by me or my legal representatives or assigns in any country foreign to the United States of America are as follows:

(a) none filed more than 12 months prior to said international application, unless named below:

(b) earliest filed less than 12 months prior to said international application (the priority of which is hereby claimed under 35 U.S.C. Section 365):

Japanese Application No. 9/15790, Filed January 29, 1997

Japanese Application No. 9/133422, Filed May 23, 1997

Japanese Application No. 9/278062, Filed September 25, 1997

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a), which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.)

(Filing Date)

(Status)(patented, pending, abandoned)

I hereby appoint Randall J. Knuth, Regis. No. 34,644, Victor F. Lohmann, III, Regis. No. 33,951, Stephen J. Weyer, Regis. No. 43,259, and Michael D. Schwartz, Regis. No. 44,326 of the firm of RANDALL J. KNUTH, P.C., as attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Date

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Date

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Inventor's Signature Ryu Kaiwara

Date

August 12, 1999



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
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JANUARY 03, 2000

PTAS

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RECD JAN 10 2000

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NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

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BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

OHMI, TADAHIRO

DOC DATE: 09/02/1999

ASSIGNEE:

HIRAYAMA, MASAKI

DOC DATE: 09/02/1999

ASSIGNEE:

KAIWARA, RYU

DOC DATE: 09/02/1999

ASSIGNEE:

NITTA, TAKAHISA

DOC DATE: 09/02/1999

ASSIGNEE:

TAKANO, HARUYUKI

DOC DATE: 09/02/1999

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SERIAL NUMBER: 09355229
PATENT NUMBER:

FILING DATE: 10/05/1999
ISSUE DATE:

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

10-12-1999



101168312

RECORDED FORM COVER SHEET
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Tadahiro OHMI Takahisa NITTAMasaki HIRAYAMA Haruyuki TAKANORyu KAIWARA

Additional names(s) of conveying party(ies) attached?

3. Nature of conveyance: MRD 10-5-99 Assignment Merger Security Agreement Change of Name

Other _____

Execution Date: September 2, 19994. Application number(s) or patent number(s): 09/355,229

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Randall J. Knuth
Randall J. Knuth, P.C.

Internal Address: _____

Street Address: _____

3510-A Stellhorn RoadCity: Fort Wayne State: INZip: 46815-46316. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):

\$40.00

Enclosed Check No. 2844
 Authorized to be charged to deposit account

8. Deposit account number:

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and to be correct and any attached copy is true copy of the original document.

Randall J. Knuth
Name of Person Signing

Signature

Date

ASSIGNMENT

WHEREAS, we, Tadahiro OHMI, residing at 1-17-301, Komegabukuro 2-chome, Aoba-ku, Sendai-shi, Miyagi-ken 980 JAPAN; Takahisa NITTA, residing at c/o Kabushiki Kaisha Ultraclean Technology Research Institute, 1-4, Hongo 4-chome, Bunkyo-ku, Tokyo 113 JAPAN; Masaki HIRAYAMA, Haruyuki TAKANO and Ryu KAIWARA all residing at c/o Department of Electronics Faculty of Engineering Tohoku University, Aza-Aoba, Aramaki, Aoba-ku, Sendai-shi, Miyagi-ken 980 JAPAN, have invented certain improvements in:

PLASMA DEVICE

described and claimed in an application for Letters Patent of the United States of America thereon, said Application filed on July 26, 1999, based on Japanese Application PCT/JP98/000364 filed on January 29, 1999.

WHEREAS, Tadahiro OHMI, is to acquire the entire right, title and interest in and to said invention and said application for Letters Patent;

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00) to us in hand paid, and for other good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we do hereby assign, sell, transfer and set over unto said Tadahiro OHMI, his successors and assigns, the full, entire and exclusive right, title and interest, for the territory of the United States of America and for all foreign countries, in and to said invention, as described in the application identified

above, and in and to said application and any divisions or continuations or continuations-in-part thereof or continuation prosecution applications or substitutes therefor which may be filed, and in and to any patents or reissues, renewals or extensions thereof which may be granted on said application or for said invention, and in and to any patent application which may be filed on said invention in countries foreign to the United States of America and any patents granted thereon; said invention, applications, and Letters Patent to be held and enjoyed by said Tadahiro OHMI, and his successors or assigns, to the full end of the term or terms for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment not been made.

We hereby authorize and request the Patent and Trademark Office officials in the United States of America and the Patent Office officials of any and all foreign countries to issue any and all of said Letters Patent, when granted to said Tadahiro OHMI, as the assignee of our entire right, title and interest in and to the same, for the sole use and enjoyment of said Tadahiro OHMI, his successors and assigns.

Further, we agree to execute all papers and to give such lawful testimony and to perform such other lawful acts as said Tadahiro OHMI, his successors and assigns may require to enable it or them to procure Letters Patent on said invention or reissues or extensions thereof in the United States of America

and/or in any foreign country, and/or to hold, enforce or convey
said Letters Patent, reissues or extensions.

Executed this 2 day of Sep., 1999.

Tadahiro Ohmi
Tadahiro OHMI

Takahisa Nitta
Takahisa NITTA

Masaki Hirayama
Masaki HIRAYAMA

Haruyuki Takano
Haruyuki TAKANO

Ryu Kaihara
Ryu KAIWARA